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<p>(21) International Application Number: PCT/EP95/01888</p> <p>(22) International Filing Date: 16 May 1995 (16.05.95)</p> <p>(30) Priority Data: A 1011/94 17 May 1994 (17.05.94) AT</p> <p>(71) Applicants (for all designated States except US): ALMA ROSA, N.V. [BE/BE]; Handelslei 12, B-2960 Brecht (BE). FIRMA, Peter, Rausch [AT/AT]; Weberstrasse 6, A-3300 Amstetten (AT).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): WATSON, David [GB/NL]; Courbetstraat 34'', NL-1077 ZV Amsterdam (NL). RAUSCH, Peter [AT/AT]; Heidestrasse 23, A-3300 Amstetten (AT).</p> <p>(74) Agent: JILDERDA, Anne, Ayolt; Octrooibureau Lioc B.V., P.O. Box 85096, NL-3508 AB Utrecht (NL).</p>			<p>(81) Designated States: AU, CA, JP, NZ, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p><b>Published</b> <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>
<p>(54) Title: COSMETIC PRODUCT CONTAINING HEMPSEED OIL AND METHOD FOR MANUFACTURING THE SAME</p> <p>(57) Abstract</p> <p>A description is provided of the utilization of hempseed oil as a skin-care additive in the manufacture of various cosmetic products. The pure, natural oil used in the preparations, which is readily available as a low-priced and "replenishable" raw material, develops excellent skin-care properties and this appears to make its use in cosmetic products particularly advantageous.</p>			

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## Cosmetic product containing hempseed oil and method for manufacturing the same

The present invention relates to a cosmetic product and a method of manufacturing the same.

Cosmetic products are generally used for the care of the human body, especially for the treatment of the skin and hair. Many conventional cosmetic products however fail to give the skin and hair the care and nutrition they need. It is therefore an object of the invention to provide for a cosmetic product, particularly a body care product, with improved nutritious properties.

To this end a cosmetic product is, according to the invention, characterized in that it comprises hempseed oil as a nutritive substance. A method manufacturing such a cosmetic product is, according to the invention, characterized in that hempseed oil is added as a nutritive substance.

The fatty oil of the fruit (seeds) of hemp (*Cannabis Sativa*), one of the oldest plants cultivated by mankind, is characterized by a particularly high content of polyunsaturated fatty acids. In the past it was used as an edible oil as well as raw material in the production of paints and varnishes.

- 5 In the field of cosmetics no indication exists regarding the use of hempseed oil as a nutritive substance in cosmetic products and other applications of hempseed oil have largely been discontinued due to a reduction in hemp cultivation and the use of newer raw materials.

- 10 Present-day tests, underlying the present invention, have however indicated that the addition of cold-pressed hempseed oil in cosmetic products provides excellent nutritive benefits.

Especially noticeable are the effects on skin and hair. The skin becomes particularly soft and smooth; in addition, the hair feels light and has a beautiful sheen.

The results revealed that in this respect hempseed oil is superior to most other known nutritive additives.

5 Its use in cosmetics is important from an economical as well as environment-related viewpoint, since hempseed oil is readily available as low-priced and, in particular, entirely natural, 'replenishable' raw material.

By combining it with other cosmetic nutritive substances and active ingredients, additional interesting effects can be achieved. This way, the nutritive effect of quaternary active ingredients in hair-care products is clearly strengthened. The amount of hempseed oil used varies from 0.2 to 60 per cent, depending on the  
10 cosmetic product.

To ensure the optimum distribution and processing during production, the hempseed oil is added, for practical purposes, during either the fat or emulsifying phase and the latter is then worked into the remaining product or further processed as usual.

15 To avoid thermal changes, excessive and extended heating of the mixture during processing should be avoided as much as possible.

To prevent oxidative changes, the products are compounded with antioxidants, which are commercially available for this purpose.

20 Prior to pressing, the hempseeds used are thoroughly cleaned and shelled by means of mechanical processes such as sifting or washing, in order to avoid contamination of the added oil with cannabinoids. Moreover, it is possible to utilize hemp species which do not form any psychoactive cannabinoids.

The following cosmetic products are made with the addition of hempseed oil:  
hair shampoo, hair conditioner, hair balm, hair spray, shower gel, oil bath, bubble  
25 bath, neutral liquid soap, normal and non-alkaline soap bars, lip balm, facial masks,

cleansing milk, skin-care gel, body lotion, skin cream, massage cream, massage oil and body oil.

	Example 1:	HAIR SHAMPOO, intensive care
		40.0 % Sodium Laureth Sulfate 30 %
5		2.0 % Cocoamide DEA
		0.25 % Hempseed oil
		Preserving agent
		Perfume
	balance to	100 % Water
10	Example 2:	HAIR BALM for damaged hair
		4.0 % Cetearyl Alcohol - Ceteareth-20
		1.5 % Octyldodecanol
		1.5 % Hempseed oil
		1.5 % Laurimoniumchloride
15		5.0 % Glycerin
		Preserving agent
		Perfume
	balance to	100 % Water
	Example 3:	SKIN-CARE CREAM for rough skin
20		20.0 % Isopropyl Myristate, Stearic Acid,
		Cetyl Palmitate Cetearyl Alcohol,
		Glyceryl Stearate
		5.0 % Glycerin
		2.5 % Hempseed oil
25		Preserving agent
		Perfume
	balance to	100. % Water

The finished products listed above are particularly suitable for cleaning as well as the care of dry, brittle, damaged and dull hair, as well as dry, chapped and sensitive skin.

## Claims:

1.                   Cosmetic product, particularly a body care product, characterized in that it contains hempseed oil as a nutritive substance.
2.                   Cosmetic product according to claim 1 characterized in that the hempseed oil consists of pure, natural hempseed oil which has been cold-pressed.
3.                   Method for the manufacture of cosmetic products, particularly body care products, characterized in that hempseed oil is added as a nutritive substance.
4.                   Method according to claim 3, characterized in that pure, natural hempseed oil is used in combination with other nutritive and active ingredients.
5.                   Method according to claim 3 or 4 characterized in that the hempseed oil is added during either the fat or emulsifying phase and the latter is then worked into the remaining product or further processed as usual.
6.                   Method according to any of claims 3 to 5 characterized in that excessive and extended heating of the mixture during processing is avoided as much as possible.
7.                   Method according to any of claims 3 to 6 characterized in that the products are compounded with antioxidants.
8.                   Method according to any of claims 3 to 7 characterized in that the hempseed oil is obtained by cold pressing of hempseeds.
9.                   Method according to claim 8 characterized in that, prior to pressing, the hempseeds used are thoroughly cleaned and shelled by means of mechanical processes such as sifting or washing.

# INTERNATIONAL SEARCH REPORT

Interns      Application No  
PCT/EP 95/01888

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 6    A61K7/48      A61K7/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6    A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP,A,0 160 430 (UNILEVER PLC) 6 November 1985 see page 1 see page 3, line 20 - line 33 see page 4, line 1 - line 7 see page 5, line 5 - line 33 see page 10, line 5 - line 14 see examples 10,11 ---	1,3-6
X	FR,A,1 347 799 (G. PAPERTIAN) 25 November 1963 see the whole document ---	1,3,4
X	US,A,4 986 983 (T. GERSTEIN) 22 January 1991 see column 2, line 64 - line 71 see column 3, line 1 - line 3 see column 3, line 12 21 ---	1,4
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☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP,A,0 092 085 (SOCIÉTÉ DES PRODUITS NESTLÉ S.A.) 26 October 1983  see page 1 see page 2, line 1 - line 3 see page 4, line 25 - line 35 ---	1,3  1-9
X	US,A,4 248 861 (S. R. SCHUTT) 3 February 1981 see column 3, line 48 - line 53 see column 4, line 3 -----	1



# INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat Application No  
PCT/EP 95/01888

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP-A-0160430	06-11-85	AU-B- 565628 AU-A- 4087985 JP-C- 1743963 JP-B- 4021642 JP-A- 60228405	24-09-87 17-10-85 15-03-93 13-04-92 13-11-85
FR-A-1347799	31-03-64	NONE	
US-A-4986983	22-01-91	NONE	
EP-A-0092085	26-10-83	AU-B- 567091 AU-A- 1308483 AU-A- 1316983 CA-A- 1195172 CA-A- 1216592 EP-A, B 0092076 GB-A, B 2118567 JP-C- 1723581 JP-B- 4004298 JP-A- 58189110 JP-B- 1055680 JP-C- 1569005 JP-A- 58192828 US-A- 4970235 US-A- 5011855 US-A- 4938984 US-A- 4526793 US-A- 4703060	12-11-87 20-10-83 20-10-83 15-10-85 13-01-87 26-10-83 02-11-83 24-12-92 27-01-92 04-11-83 27-11-89 10-07-90 10-11-83 13-11-90 30-04-91 03-07-90 02-07-85 27-10-87
US-A-4248861	03-02-81	NONE	